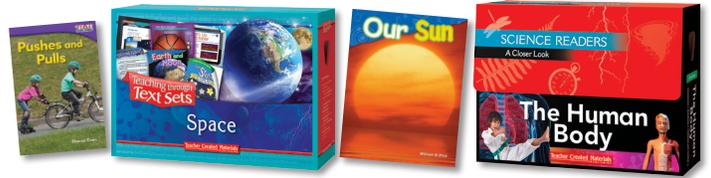




Florida Next Generation Science Standards Correlation

Grades K–8

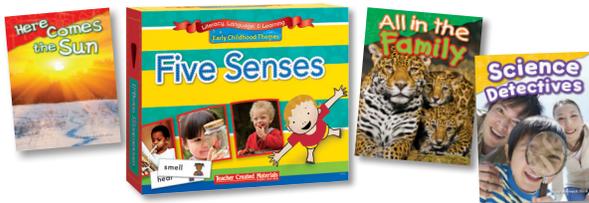




Standard No. Florida NGSSS Standard

Product / ISBN

Earth and Space Science		
SC.K.E.5.1	Explore the Law of Gravity by investigating how objects are pulled toward the ground unless something holds them up.	Leveled Readers with Lesson Plans <i>Big and Little</i> ISBN 9781433338021 <i>Earth and Moon</i> ISBN 9781480745926 <i>Looking Up!</i> ISBN 9781480745933 <i>Our Sun</i> ISBN 9781480745919 <i>Shadows</i> ISBN 9781480745889 Complete Kit <i>Teaching through Text Sets: Space</i> ISBN 9781493815098
SC.K.E.5.2	Recognize the repeating pattern of day and night.	
SC.K.E.5.3	Recognize that the Sun can only be seen in the daytime.	
SC.K.E.5.4	Observe that sometimes the Moon can be seen at night and sometimes during the day.	
SC.K.E.5.5	Observe that things can be big and things can be small as seen from Earth.	
SC.K.E.5.6	Observe that some objects are far away and some are nearby as seen from Earth.	
Life Science		
SC.K.L.14.1	Recognize the five senses and related body parts.	Leveled Readers with Lesson Plans <i>Baby Animals</i> ISBN 9781480745421 <i>Growing Up</i> ISBN 9781480745452 <i>Seeds</i> ISBN 9781480745438 Complete Kits <i>Early Childhood Themes: Animals</i> ISBN 9781433314629 <i>Science Readers: A Closer Look: The Human Body</i> ISBN 9781433314278
SC.K.L.14.2	Recognize that some books and other media portray animals and plants with characteristics and behaviors they do not have in real life.	
SC.K.L.14.3	Observe plants and animals, describe how they are alike and how they are different in the way they look and in the things they do.	
Physical Science		
SC.K.P.12.1	Investigate that things move in different ways, such as fast, slow, etc.	Leveled Readers with Lesson Plans <i>How Sound Moves</i> ISBN 9781480745858 <i>I Spy</i> ISBN 9781480745469 <i>Nature Made</i> ISBN 9781480745490 <i>Pushes and Pulls</i> ISBN 9781493824908 <i>Solid or Liquid?</i> ISBN 9781480745483 <i>Sort It!</i> ISBN 9781480745568 <i>Tell Me About It</i> ISBN 9781480745476
SC.K.P.13.1	Observe that a push or a pull can change the way an object is moving.	
SC.K.P.8.1	Sort objects by observable properties, such as size, shape, color, temperature (hot or cold), weight (heavy or light) and texture.	
SC.K.P.9.1	Recognize that the shape of materials such as paper and clay can be changed by cutting, tearing, crumpling, smashing, or rolling.	
Nature of Science		
SC.K.N.1.2	Make observations of the natural world and know that they are descriptors collected using the five senses.	Leveled Reader with Lesson Plan <i>Sort It!</i> ISBN 9781480745568



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Earth and Space Science		
SC.1.E.5.1	Observe and discuss that there are more stars in the sky than anyone can easily count and that they are not scattered evenly in the sky.	Leveled Readers with Lesson Plans <i>Outer Space</i> ISBN 9781433338519 <i>Science Detectives</i> ISBN 9781480745957 <i>Here Comes the Sun</i> ISBN 9781480745506 <i>On Water</i> ISBN 9781480745544 <i>Water Bodies</i> ISBN 9781480746305 <i>Landforms</i> ISBN 9781480746299
SC.1.E.5.2	Explore the Law of Gravity by demonstrating that Earth's gravity pulls any object on or near Earth toward it even though nothing is touching the object.	
SC.1.E.5.3	Investigate how magnifiers make things appear bigger and help people see things they could not see without them.	
SC.1.E.5.4	Identify the beneficial and harmful properties of the Sun.	
SC.1.E.6.1	Recognize that water, rocks, soil, and living organisms are found on Earth's surface.	
SC.1.E.6.2	Describe the need for water and how to be safe around water.	
SC.1.E.6.3	Recognize that some things in the world around us happen fast and some happen slowly.	
Life Science		
SC.1.L.14.1	Make observations of living things and their environment using the five senses.	Leveled Readers with Lesson Plans <i>Message Received!</i> ISBN 9781480745865 <i>Inside a Plant</i> ISBN 9781480745810 <i>What Makes a Plant?</i> ISBN 9781480745803 <i>Living!</i> ISBN 9781480745414 <i>All in the Family</i> ISBN 9781480745841 <i>Growth and Change</i> ISBN 9781480745834 <i>What Do Living Things Need?</i> ISBN 9781480745445
SC.1.L.14.2	Identify the major parts of plants, including stem, roots, leaves, and flowers.	
SC.1.L.14.3	Differentiate between living and nonliving things.	
SC.1.L.16.1	Make observations that plants and animals closely resemble their parents, but variations exist among individuals within a population.	
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.	
Complete Kits <i>Early Childhood Themes: Five Senses</i> ISBN 9781433335211 <i>Teaching through Text Sets: Light and Sound</i> ISBN 9781493815081 <i>Teaching through Text Sets: Animals</i> ISBN 9781493815074		
Physical Science		
SC.1.P.12.1	Demonstrate and describe the various ways that objects can move, such as in a straight line, zigzag, back-and-forth, round-and-round, fast, and slow.	Leveled Readers with Lesson Plans <i>Pushes and Pulls</i> ISBN 9781493824908 <i>We Recycle</i> ISBN 9781480745940
SC.1.P.13.1	Demonstrate that the way to change the motion of an object is by applying a push or a pull.	
SC.1.P.8.1	Sort objects by observable properties, such as size, shape, color, temperature (hot or cold), weight (heavy or light), texture, and whether objects sink or float.	
Nature of Science		
SC.1.N.1.3	Keep records as appropriate - such as pictorial and written records - of investigations conducted.	Leveled Reader with Lesson Plan <i>Science Detectives</i> ISBN 9781480745957



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Earth and Space Science		
SC.2.E.6.1	Recognize that Earth is made up of rocks. Rocks come in many sizes and shapes.	<p>Leveled Readers with Lesson Plans</p> <p><i>Rocks and Minerals</i> ISBN 9781480746312</p> <p><i>The Seasons</i> ISBN 9781480745902</p> <p><i>Water Cycle</i> ISBN 9781480746336</p> <p><i>Extreme Weather</i> ISBN 9781480746688</p> <p>Complete Kits</p> <p><i>Science Readers: A Closer Look: Forces in Nature</i> ISBN 9781433303012</p> <p><i>Teaching through Text Sets: Climate and Weather</i> ISBN 9781493812813</p>
SC.2.E.6.2	Describe how small pieces of rock and dead plant and animal parts can be the basis of soil and explain the process by which soil is formed.	
SC.2.E.6.3	Classify soil types based on color, texture (size of particles), the ability to retain water, and the ability to support the growth of plants.	
SC.2.E.7.1	Compare and describe changing patterns in nature that repeat themselves, such as weather conditions including temperature and precipitation, day to day and season to season.	
SC.2.E.7.2	Investigate by observing and measuring, that the Sun's energy directly and indirectly warms the water, land, and air.	
SC.2.E.7.3	Investigate, observe and describe how water left in an open container disappears (evaporates), but water in a closed container does not disappear (evaporate).	
SC.2.E.7.4	Investigate that air is all around us and that moving air is wind.	
SC.2.E.7.5	State the importance of preparing for severe weather, lightning, and other weather related events.	
Life Science		
SC.2.L.14.1	Distinguish human body parts (brain, heart, lungs, stomach, muscles, and skeleton) and their basic functions.	<p>Leveled Readers with Lesson Plans</p> <p><i>Look Inside: Your Brain</i> ISBN 9781433338533</p> <p><i>Look Inside: Your Skeleton Muscles</i> ISBN 9781433338540</p> <p><i>Look Inside: Your Heart and Lungs</i> ISBN 9781433338557</p> <p><i>Life Cycles</i> ISBN 9781480746589</p> <p><i>Pollination</i> ISBN 9781480746190</p> <p><i>Raising Babies: What Animal Parents Do?</i> ISBN 9781480745827</p> <p><i>A Butterfly's Life</i> ISBN 9781433338182</p> <p><i>Interdependence of Living Things</i> ISBN 9781480746206</p> <p><i>Ecosystems</i> ISBN 9781480746213</p> <p><i>Habitats</i> ISBN 9781480746220</p> <p><i>Environment: A World of Change</i> ISBN 9781480746237</p>
SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.	
SC.2.L.17.1	Compare and contrast the basic needs that all living things, including humans, have for survival.	
SC.2.L.17.2	Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.	
		<p>Complete Kits</p> <p><i>Science Readers: A Closer Look: Be Healthy! Be Fit!</i> ISBN 9781433331848</p> <p><i>Teaching through Text Sets: Plants</i> ISBN 9781493815104</p> <p><i>Science Readers: A Closer Look: Biomes and Ecosystems</i> ISBN 9781433303029</p>



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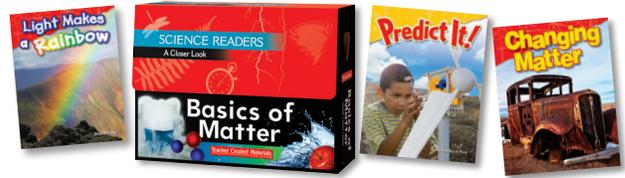
Physical Science		
SC.2.P.10.1	Discuss that people use electricity or other forms of energy to cook their food, cool or warm their homes, and power their cars.	<p>Leveled Readers with Lesson Plans</p> <p><i>Energy</i> ISBN 9781480746268</p> <p><i>Forces</i> ISBN 9781480746251</p> <p><i>Balanced and Unbalanced Forces</i> ISBN 9781480746671</p> <p><i>Motion</i> ISBN 9781480746282</p> <p><i>The Nature of Matter</i> ISBN 9781480746244</p> <p><i>Water Cycle</i> ISBN 9781480746336</p> <p>Complete Kits</p> <p><i>Science Readers: A Closer Look: Forces and Motion</i> ISBN 9781433303005</p> <p><i>Teaching through Text Sets: Basics of Matter</i> ISBN 9781493815111</p> <p><i>Teaching through Text Sets: Forces and Motion</i> ISBN 9781493812806</p>
SC.2.P.13.1	Investigate the effect of applying various pushes and pulls on different objects.	
SC.2.P.13.2	Demonstrate that magnets can be used to make some things move without touching them.	
SC.2.P.13.3	Recognize that objects are pulled toward the ground unless something holds them up.	
SC.2.P.13.4	Demonstrate that the greater the force (push or pull) applied to an object, the greater the change in motion of the object.	
SC.2.P.8.1	Observe and measure objects in terms of their properties, including size, shape, color, temperature, weight, texture, sinking or floating in water, and attraction and repulsion of magnets.	
SC.2.P.8.2	Identify objects and materials as solid, liquid, or gas.	
SC.2.P.8.3	Recognize that solids have a definite shape and that liquids and gases take the shape of their container.	
SC.2.P.8.4	Observe and describe water in its solid, liquid, and gaseous states.	
SC.2.P.8.5	Measure and compare temperatures taken every day at the same time.	
SC.2.P.8.6	Measure and compare the volume of liquids using containers of various shapes and sizes.	
SC.2.P.9.1	Investigate that materials can be altered to change some of their properties, but not all materials respond the same way to any one alteration.	
Nature of Science		
SC.2.N.1.6	Explain how scientists alone or in groups are always investigating new ways to solve problems.	<p>Leveled Reader with Lesson Plan</p> <p><i>Analyze It!</i> ISBN 9781480746343</p>



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Earth and Space Science		
SC.3.E.5.1	Explain that stars can be different some are smaller, some are larger, and some appear brighter than others all except the Sun are so far away that they look like points of light.	<p>Leveled Readers with Lesson Plans <i>Gravity</i> ISBN 9781480746657 <i>Our Sun</i> ISBN 9781480745919</p> <p>Complete Kit <i>Science Readers: A Closer Look: Neighbors in Space</i> ISBN 9781433314209</p>
SC.3.E.5.2	Identify the Sun as a star that emits energy some of it in the form of light.	
SC.3.E.5.3	Recognize that the Sun appears large and bright because it is the closest star to Earth.	
SC.3.E.5.4	Explore the Law of Gravity by demonstrating that gravity is a force that can be overcome.	
SC.3.E.5.5	Investigate that the number of stars that can be seen through telescopes is dramatically greater than those seen by the unaided eye.	
SC.3.E.6.1	Demonstrate that radiant energy from the Sun can heat objects and when the Sun is not present, heat may be lost.	
Life Science		
SC.3.L.14.1	Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.	<p>Leveled Readers with Lesson Plans <i>Photosynthesis</i> ISBN 9781480746619 <i>Food Webs</i> ISBN 9781480746596 <i>The Right Environment</i> ISBN 9781480746626 <i>Plant Reproduction</i> ISBN 9781480746978 <i>Traits for Survival</i> ISBN 9781480746602</p> <p>Complete Kit <i>Teaching through Text Sets: Adaptation</i> ISBN 9781493812790</p>
SC.3.L.14.	Investigate and describe how plants respond to stimuli (heat, light, gravity), such as the way plant stems grow toward light and their roots grow downward in response to gravity.	
SC.3.L.15.1	Classify animals into major groups (mammals, birds, reptiles, amphibians, fish, arthropods, vertebrates and invertebrates, those having live births and those which lay eggs) according to their physical characteristics and behaviors.	
SC.3.L.15.2	Classify flowering and nonflowering plants into major groups such as those that produce seeds, or those like ferns and mosses that produce spores, according to their physical characteristics.	
SC.3.L.17.1	Describe how animals and plants respond to changing seasons.	
SC.3.L.17.2	Recognize that plants use energy from the Sun, air, and water to make their own food.	



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Physical Science		
SC.3.P.10.1	Identify some basic forms of energy such as light, heat, sound, electrical, and mechanical.	<p>Leveled Readers with Lesson Plans</p> <p><i>Electromagnetism</i> ISBN 9781480746664</p> <p><i>How Heat Moves</i> ISBN 9781480745896</p> <p><i>Light and Its Affects</i> ISBN 9781480747067</p> <p><i>Light Makes a Rainbow</i> ISBN 9781480745872</p> <p><i>Friction</i> ISBN 9781480746275</p> <p><i>Changing Matter</i> ISBN 9781480746633</p> <p>Complete Kit</p> <p><i>Science Readers: A Closer Look: Basics of Matter</i> ISBN 9781433314131</p>
SC.3.P.10.2	Recognize that energy has the ability to cause motion or create change.	
SC.3.P.10.3	Demonstrate that light travels in a straight line until it strikes an object or travels from one medium to another.	
SC.3.P.11.1	Investigate, observe, and explain that things that give off light often also give off heat	
SC.3.P.11.2	Investigate, observe, and explain that heat is produced when one object rubs against another, such as rubbing one's hands together.	
SC.3.P.8.1	Measure and compare temperatures of various samples of solids and liquids.	
SC.3.P.8.2	Measure and compare the mass and volume of solids and liquids.	
SC.3.P.8.3	Compare materials and objects according to properties such as size, shape, color, texture, and hardness.	
SC.3.P.9.1	Describe the changes water undergoes when it changes state through heating and cooling by using familiar scientific terms such as melting, freezing, boiling, evaporation, and condensation.	
Nature of Science		
SC.3.N.1.6	Infer based on observation.	<p>Leveled Reader with Lesson Plan</p> <p><i>Predict It!</i> ISBN 9781480746732</p>



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Earth and Space Science			
SC.4.E.5.1	Observe that the patterns of stars in the sky stay the same although they appear to shift across the sky nightly, and different stars can be seen in different seasons.	<p>Leveled Readers with Lesson Plans</p> <p><i>Earth's Moon</i> ISBN 9781480746725</p> <p><i>Florida's Economy: From the Mouse to the Moon</i> ISBN 9781493835690</p> <p><i>The Rock Cycle</i> ISBN 9781480747098</p> <p><i>Our Resources</i> ISBN 9781480747104</p> <p><i>Weathering and Erosion</i> ISBN 9781480746329</p> <p><i>What a Scientist Sees</i> ISBN 9781480747128</p> <p><i>The Story of Fossil Fuels</i> ISBN 9781480747111</p> <p>Complete Kits</p> <p><i>Discovering Science through Inquiry: The Solar System</i> ISBN 9781433313660</p> <p><i>Discovering Science through Inquiry: Rocks and Minerals</i> ISBN 9781433313691</p> <p><i>Teaching through Text Sets: The Changing Shape of the Land</i> ISBN 9781493815128</p>	
SC.4.E.5.2	Describe the changes in the observable shape of the moon over the course of about a month.		
SC.4.E.5.3	Recognize that Earth revolves around the Sun in a year and rotates on its axis in a 24-hour day.		
SC.4.E.5.4	Relate that the rotation of Earth (day and night) and apparent movements of the Sun, Moon, and stars are connected.		
SC.4.E.5.5	Investigate and report the effects of space research and exploration on the economy and culture of Florida.		
SC.4.E.6.1	Identify the three categories of rocks: igneous, (formed from molten rock) sedimentary (pieces of other rocks and fossilized organisms) and metamorphic (formed from heat and pressure).		
SC.4.E.6.2	Identify the physical properties of common earth-forming minerals, including hardness, color, luster, cleavage, and streak color, and recognize the role of minerals in the formation of rocks.		
SC.4.E.6.3	Recognize that humans need resources found on Earth and that these are either renewable or nonrenewable.		
SC.4.E.6.4	Describe the basic differences between physical weathering (breaking down of rock by wind, water, ice, temperature change, and plants) and erosion (movement of rock by gravity, wind, water, and ice).		
SC.4.E.6.5	Investigate how technology and tools help to extend the ability of humans to observe very small things and very large things.		
SC.4.E.6.6	Identify resources available in Florida (water, phosphate, oil, limestone, silicon, wind, and solar energy).		
Life Science			
SC.4.L.16.1	Identify processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.		<p>Leveled Readers with Lesson Plans</p> <p><i>Plant Reproduction</i> ISBN 9781480746978</p> <p><i>Producers and Consumers</i> ISBN 9781480746985</p> <p>Complete Kits</p> <p><i>Discovering Science through Inquiry: Living Organisms</i> ISBN 9780743908009</p> <p><i>Discovering Science through Inquiry: Ecology and the Environment</i> ISBN 9781433313707</p>
SC.4.L.16.2	Explain that although characteristics of plants and animals are inherited, some characteristics can be affected by the environment.		
SC.4.L.16.3	Recognize that animal behaviors may be shaped by heredity and learning.		
SC.4.L.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.		
SC.4.L.17.1	Compare the seasonal changes in Florida plants and animals to those in other regions of the country.		
SC.4.L.17.2	Explain that animals, including humans, cannot make their own food and that when animals eat plants or other animals, the energy stored in the food source is passed to them.		
SC.4.L.17.3	Trace the flow of energy from the Sun as it is transferred along the food chain through the producers to the consumers.		
SC.4.L.17.4	Recognize ways plants and animals, including humans, can impact the environment.		



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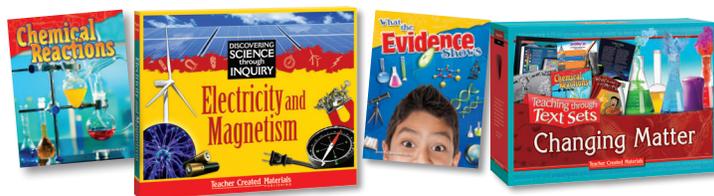
Physical Science		
SC.4.P.10.1	Observe and describe some basic forms of energy, including light, heat, sound, electrical, and the energy of motion.	<p>Leveled Readers with Lesson Plans</p> <p><i>Transferring Energy</i> ISBN 9781480747043</p> <p><i>Sound Waves and Communications</i> ISBN 9781480747050</p> <p><i>Composition of Matter</i> ISBN 9781480747418</p> <p><i>The Nature of Matter</i> ISBN 9781480746244</p> <p><i>Conservation of Mass</i> ISBN 9781433387975</p> <p><i>Electromagnetism</i> ISBN 9781480746664</p> <p><i>Forces</i> ISBN 9781480746251</p> <p><i>Changing Matter</i> ISBN 9781480746633</p> <p>Complete Kits</p> <p><i>Teaching through Text Sets: Movement of Energy</i> ISBN 9781493812837</p> <p><i>Discovering Science through Inquiry: Energy</i> ISBN 9781433326516</p>
SC.4.P.10.2	Investigate and describe that energy has the ability to cause motion or create change.	
SC.4.P.10.3	Investigate and explain that sound is produced by vibrating objects and that pitch depends on how fast or slow the object vibrates.	
SC.4.P.10.4	Describe how moving water and air are sources of energy and can be used to move things.	
SC.4.P.11.1	Recognize that heat flows from a hot object to a cold object and that heat flow may cause materials to change temperature.	
SC.4.P.11.2	Identify common materials that conduct heat well or poorly.	
SC.4.P.12.1	Recognize that an object in motion always changes its position and may change its direction.	
SC.4.P.12.2	Investigate and describe that the speed of an object is determined by the distance it travels in a unit of time and that objects can move at different speeds.	
SC.4.P.8.1	Measure and compare objects and materials based on their physical properties including: mass, shape, volume, color, hardness, texture, odor, taste, attraction to magnets.	
SC.4.P.8.2	Identify properties and common uses of water in each of its states.	
SC.4.P.8.3	Explore the Law of Conservation of Mass by demonstrating that the mass of a whole object is always the same as the sum of the masses of its parts.	
SC.4.P.8.4	Investigate and describe that magnets can attract magnetic materials and attract and repel other magnets.	
SC.4.P.9.1	Identify some familiar changes in materials that result in other materials with different characteristics, such as decaying animal or plant matter, burning, rusting, and cooking.	
Nature of Science		
SC.4.N.1.6	Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.	<p>Leveled Reader with Lesson Plan</p> <p><i>What a Scientist Sees</i> ISBN 9781480747128</p>



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Earth and Space Science		
SC.5.E.5.1	Recognize that a galaxy consists of gas, dust, and many stars, including any objects orbiting the stars. Identify our home galaxy as the Milky Way.	Leveled Readers with Lesson Plans <i>The Milky Way: A River of Stars</i> ISBN 9781480747487 <i>The Wonder of our Solar System</i> ISBN 9781433300806 <i>We Are Here</i> ISBN 9781480747081 <i>Inside the Water Cycle</i> ISBN 9781433300745 <i>Tracking the Weather</i> ISBN 9781480746695 <i>Climate</i> ISBN 9781480746701
SC.5.E.5.2	Recognize the major common characteristics of all planets and compare/contrast the properties of inner and outer planets.	
SC.5.E.5.3	Distinguish among the following objects of the Solar System Sun, planets, moons, asteroids, comets and identify Earth's position in it.	
SC.5.E.7.1	Create a model to explain the parts of the water cycle. Water can be a gas, a liquid, or a solid and can go back and forth from one state to another.	
SC.5.E.7.2	Recognize that the ocean is an integral part of the water cycle and is connected to all of Earth's water reservoirs via evaporation and precipitation processes.	
SC.5.E.7.3	Recognize how air temperature, barometric pressure, humidity, wind speed and direction, and precipitation determine the weather in a particular place and time.	
SC.5.E.7.4	Distinguish among the various forms of precipitation (rain, snow, sleet, and hail), making connections to the weather in a particular place and time.	
SC.5.E.7.5	Recognize that some of the weather-related differences, such as temperature and humidity, are found among different environments, such as swamps, deserts, and mountains.	
SC.5.E.7.6	Describe characteristics (temperature and precipitation) of different climate zones as they relate to latitude, elevation, and proximity to bodies of water.	
SC.5.E.7.7	Design a family preparedness plan for natural disasters and identify the reasons for having such a plan.	
Life Science		
SC.5.L.14.1	Identify the organs in the human body and describe their functions, including the skin, brain, heart, lungs, stomach, liver, intestines, pancreas, muscles and skeleton, reproductive organs, kidneys, bladder, and sensory organs.	Leveled Readers with Lesson Plans <i>Digestion and Using Food</i> ISBN 9781480747388 <i>Adaptations</i> ISBN 9781480747005
SC.5.L.14.2	Compare and contrast the function of organs and other physical structures of plants and animals, including humans, for example: some animals have skeletons for support some with internal skeletons others with exoskeletons while some plants have stems for support.	
SC.5.L.15.1	Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.	
SC.5.L.17.1	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.	



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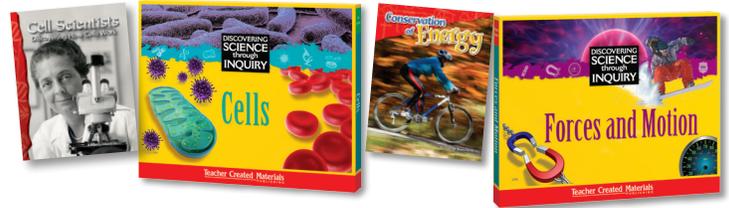
Physical Science		
SC.5.P.10.1	Investigate and describe some basic forms of energy, including light, heat, sound, electrical, chemical, and mechanical.	<p>Leveled Readers with Lesson Plans</p> <p><i>Energy in Action</i> ISBN 9781480746640</p> <p><i>Electricity</i> ISBN 9781480747029</p> <p><i>Mixtures and Solutions</i> ISBN 9781480747425</p> <p><i>Chemical Reactions</i> ISBN 9781480747456</p> <p>Complete Kits</p> <p><i>Discovering Science through Inquiry: Electricity and Magnetism</i> ISBN 9781433313653</p> <p><i>Discovering Science through Inquiry: Forces and Motion</i> ISBN 9780743904773</p> <p><i>Discovering Science through Inquiry: Matter</i> ISBN 9780743907996</p> <p><i>Teaching through Text Sets: Changing Matter</i> ISBN 9781493812868</p>
SC.5.P.10.2	Investigate and explain that energy has the ability to cause motion or create change.	
SC.5.P.10.3	Investigate and explain that an electrically-charged object can attract an uncharged object and can either attract or repel another charged object without any contact between the objects.	
SC.5.P.10.4	Investigate and explain that electrical energy can be transformed into heat, light, and sound energy, as well as the energy of motion.	
SC.5.P.11.1	Investigate and illustrate the fact that the flow of electricity requires a closed circuit (a complete loop).	
SC.5.P.11.2	Identify and classify materials that conduct electricity and materials that do not.	
SC.5.P.13.1	Identify familiar forces that cause objects to move, such as pushes or pulls, including gravity acting on falling objects.	
SC.5.P.13.2	Investigate and describe that the greater the force applied to it, the greater the change in motion of a given object.	
SC.5.P.13.3	Investigate and describe that the more mass an object has, the less effect a given force will have on the object's motion.	
SC.5.P.13.4	Investigate and explain that when a force is applied to an object but it does not move, it is because another opposing force is being applied by something in the environment so that the forces are balanced.	
SC.5.P.8.1	Compare and contrast the basic properties of solids, liquids, and gases, such as mass, volume, color, texture, and temperature.	
SC.5.P.8.2	Investigate and identify materials that will dissolve in water and those that will not and identify the conditions that will speed up or slow down the dissolving process.	
SC.5.P.8.3	Demonstrate and explain that mixtures of solids can be separated based on observable properties of their parts such as particle size, shape, color, and magnetic attraction.	
SC.5.P.8.4	Explore the scientific theory of atoms (also called atomic theory) by recognizing that all matter is composed of parts that are too small to be seen without magnification.	
SC.5.P.9.1	Investigate and describe that many physical and chemical changes are affected by temperature.	
Nature of Science		
SC.5.N.2.1	Recognize and explain that science is grounded in empirical observations that are testable explanation must always be linked with evidence.	<p>Leveled Reader with Lesson Plan</p> <p><i>What the Evidence Shows</i> ISBN 9781480747517</p>



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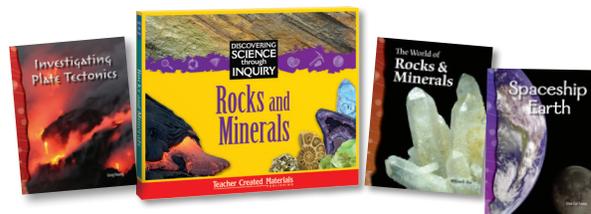
Earth and Space Science		
SC.6.E.6.1	Describe and give examples of ways in which Earth's surface is built up and torn down by physical and chemical weathering, erosion, and deposition.	<p>Leveled Readers with Lesson Plans</p> <p><i>Investigating Landforms</i> ISBN 9781433300769</p> <p><i>Conservation of Energy</i> ISBN 9781480747449</p> <p><i>The Powerful Ocean</i> ISBN 9781480747470</p> <p><i>The Four Spheres of Earth</i> ISBN 9781480747463</p> <p><i>Earth's Cycles</i> ISBN 9781480747074</p> <p><i>Global Warming</i> ISBN 9781480747500</p> <p><i>Unforgettable: Natural Disasters</i> ISBN 9781433349676</p> <p><i>Extreme Weather</i> ISBN 9781480746688</p> <p>Complete Kits</p> <p><i>Discovering Science through Inquiry: Forces in Nature</i> ISBN 9780743904766</p> <p><i>Discovering Science through Inquiry: Earth's Systems and Cycles</i> ISBN 9780743907989</p>
SC.6.E.6.2	Recognize that there are a variety of different landforms on Earth's surface such as coastlines, dunes, rivers, mountains, glaciers, deltas, and lakes and relate these landforms as they apply to Florida.	
SC.6.E.7.1	Differentiate among radiation, conduction, and convection, the three mechanisms by which heat is transferred through Earth's system.	
SC.6.E.7.2	Investigate and apply how the cycling of water between the atmosphere and hydrosphere has an effect on weather patterns and climate.	
SC.6.E.7.3	Describe how global patterns such as the jet stream and ocean currents influence local weather in measurable terms such as temperature, air pressure, wind direction and speed, and humidity and precipitation.	
SC.6.E.7.4	Differentiate and show interactions among the geosphere, hydrosphere, cryosphere, atmosphere, and biosphere.	
SC.6.E.7.5	Explain how energy provided by the sun influences global patterns of atmospheric movement and the temperature differences between air, water, and land.	
SC.6.E.7.6	Differentiate between weather and climate.	
SC.6.E.7.7	Investigate how natural disasters have affected human life in Florida.	
SC.6.E.7.8	Describe ways human beings protect themselves from hazardous weather and sun exposure.	
SC.6.E.7.9	Describe how the composition and structure of the atmosphere protects life and insulates the planet.	



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Life Science		
SC.6.L.14.1	Describe and identify patterns in the hierarchical organization of organisms from atoms to molecules and cells to tissues to organs to organ systems to organisms.	<p>Leveled Readers with Lesson Plans</p> <p><i>Cell Scientists: Discovering How Cells Work</i> ISBN 9781433301032</p> <p><i>Looking Inside Cells</i> ISBN 9781433301025</p> <p><i>Investigating the Human Body</i> ISBN 9781433301148</p> <p><i>Investigating Simple Organisms</i> ISBN 9781433301063</p> <p><i>The World of Animals</i> ISBN 9781433301124</p> <p>Complete Kit</p> <p><i>Discovering Science through Inquiry: Cells</i> ISBN 9781433313677</p>
SC.6.L.14.2	Investigate and explain the components of the scientific theory of cells (cell theory): all organisms are composed of cells (single-celled or multi-cellular), all cells come from pre-existing cells, and cells are the basic unit of life.	
SC.6.L.14.3	Recognize and explore how cells of all organisms undergo similar processes to maintain homeostasis, including extracting energy from food, getting rid of waste, and reproducing.	
SC.6.L.14.4	Compare and contrast the structure and function of major organelles of plant and animal cells, including cell wall, cell membrane, nucleus, cytoplasm, chloroplasts, mitochondria, and vacuoles.	
SC.6.L.14.5	Identify and investigate the general functions of the major systems of the human body (digestive, respiratory, circulatory, reproductive, excretory, immune, nervous, and musculoskeletal) and describe ways these systems interact with each other to maintain homeostasis.	
SC.6.L.14.6	Compare and contrast types of infectious agents that may infect the human body, including viruses, bacteria, fungi, and parasites.	
SC.6.L.15.1	Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains.	
Physical Science		
SC.6.P.11.1	Explore the Law of Conservation of Energy by differentiating between potential and kinetic energy. Identify situations where kinetic energy is transformed into potential energy and vice versa.	<p>Leveled Readers with Lesson Plans</p> <p><i>Conservation of Energy</i> ISBN 9781480747449</p> <p><i>Investigating Forces and Motion</i> ISBN 9781433300929</p> <p>Complete Kit</p> <p><i>Discovering Science through Inquiry: Forces and Motion</i> ISBN 9780743904773</p>
SC.6.P.12.1	Measure and graph distance versus time for an object moving at a constant speed. Interpret this relationship.	
SC.6.P.13.1	Investigate and describe types of forces including contact forces and forces acting at a distance, such as electrical, magnetic, and gravitational.	
SC.6.P.13.2	Explore the Law of Gravity by recognizing that every object exerts gravitational force on every other object and that the force depends on how much mass the objects have and how far apart they are.	
SC.6.P.13.3	Investigate and describe that an unbalanced force acting on an object changes its speed, or direction of motion, or both.	
Nature of Science		
SC.6.N.2.3	Recognize that scientists who make contributions to scientific knowledge come from all kinds of backgrounds and possess varied talents, interests, and goals.	<p>Leveled Reader with Lesson Plan</p> <p><i>Pioneers in Cell Biology</i> ISBN 9781433301056</p>
SC.6.N.3.4	Identify the role of models in the context of the sixth grade science benchmarks.	



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Earth and Space Science

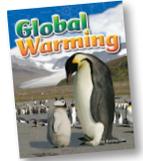
SC.7.E.6.1	Describe the layers of the solid Earth, including the lithosphere, the hot convecting mantle, and the dense metallic liquid and solid cores.	<p>Leveled Readers with Lesson Plans</p> <p><i>Investigating Plate Tectonics</i> ISBN 9781433300783</p> <p><i>The World of Rocks & Minerals</i> ISBN 9781433300721</p> <p><i>The First Geologists</i> ISBN 9781433300738</p> <p><i>Alfred Wegener: Uncovering Plate Tectonics</i> ISBN 9781433300790</p> <p><i>Spaceship Earth</i> ISBN 9781433300844</p> <p>Complete Kit</p> <p><i>Discovering Science through Inquiry: Rocks and Minerals</i> ISBN 9781433313691</p>
SC.7.E.6.2	Identify the patterns within the rock cycle and relate them to surface events (weathering and erosion) and sub-surface events (plate tectonics and mountain building).	
SC.7.E.6.3	Identify current methods for measuring the age of Earth and its parts, including the law of superposition and radioactive dating.	
SC.7.E.6.4	Explain and give examples of how physical evidence supports scientific theories that Earth has evolved over geologic time due to natural processes.	
SC.7.E.6.5	Explore the scientific theory of plate tectonics by describing how the movement of Earth's crustal plates causes both slow and rapid changes in Earth's surface, including volcanic eruptions, earthquakes, and mountain building.	
SC.7.E.6.6	Identify the impact that humans have had on Earth, such as deforestation, urbanization, desertification, erosion, air and water quality, changing the flow of water.	
SC.7.E.6.7	Recognize that heat flow and movement of material within Earth causes earthquakes and volcanic eruptions, and creates mountains and ocean basins.	



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Life Science		
SC.7.L.15.1	Recognize that fossil evidence is consistent with the scientific theory of evolution that living things evolved from earlier species.	<p>Leveled Readers with Lesson Plans</p> <p><i>The World of Genetics</i> ISBN 9781433301162</p> <p><i>Global Warming</i> ISBN 9781480747500</p> <p><i>Endangered Animals of the Desert</i> ISBN 9781433349591</p> <p><i>DNA</i> ISBN 9781480747401</p> <p><i>All About Mitosis and Meiosis</i> ISBN 9781433301049</p> <p><i>Inside Ecosystems and Biomes</i> ISBN 9781433301100</p> <p><i>Pioneering Ecologists</i> ISBN 9781433301117</p> <p>Complete Kit</p> <p><i>Discovering Science through Inquiry: Biomes and Ecosystems</i> ISBN 9780743904780</p>
SC.7.L.15.2	Explore the scientific theory of evolution by recognizing and explaining ways in which genetic variation and environmental factors contribute to evolution by natural selection and diversity of organisms.	
SC.7.L.15.3	Explore the scientific theory of evolution by relating how the inability of a species to adapt within a changing environment may contribute to the extinction of that species.	
SC.7.L.16.1	Understand and explain that every organism requires a set of instructions that specifies its traits, that this hereditary information (DNA) contains genes located in the chromosomes of each cell, and that heredity is the passage of these instructions from one generation to another.	
SC.7.L.16.2	Determine the probabilities for genotype and phenotype combinations using Punnett Squares and pedigrees.	
SC.7.L.16.3	Compare and contrast the general processes of sexual reproduction requiring meiosis and asexual reproduction requiring mitosis.	
SC.7.L.16.4	Recognize and explore the impact of biotechnology (cloning, genetic engineering, artificial selection) on the individual, society and the environment.	
SC.7.L.17.1	Explain and illustrate the roles of and relationships among producers, consumers, and decomposers in the process of energy transfer in a food web.	
SC.7.L.17.2	Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism.	
SC.7.L.17.3	Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.	



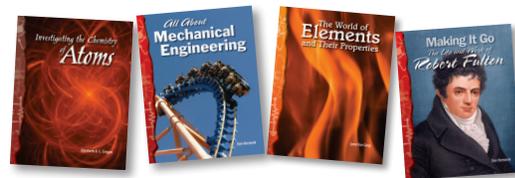
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Physical Science		
SC.7.P.10.1	Illustrate that the sun's energy arrives as radiation with a wide range of wavelengths, including infrared, visible, and ultraviolet, and that white light is made up of a spectrum of many different colors.	Leveled Readers with Lesson Plans <i>All About Light and Sound</i> ISBN 9781433300981 <i>Pioneers of Light and Sound</i> ISBN 9781433300998 <i>Inside the World of Matter</i> ISBN 9781433300868 <i>All About Energy</i> ISBN 9781433300905 Complete Kit <i>Discovering Science through Inquiry: Light and Sound</i> ISBN 9781433313684
SC.7.P.10.2	Observe and explain that light can be reflected, refracted, and/or absorbed.	
SC.7.P.10.3	Recognize that light waves, sound waves, and other waves move at different speeds in different materials.	
SC.7.P.11.1	Recognize that adding heat to or removing heat from a system may result in a temperature change and possibly a change of state.	
SC.7.P.11.2	Investigate and describe the transformation of energy from one form to another.	
SC.7.P.11.3	Cite evidence to explain that energy cannot be created nor destroyed, only changed from one form to another.	
SC.7.P.11.4	Observe and describe that heat flows in predictable ways, moving from warmer objects to cooler ones until they reach the same temperature.	
Nature of Science		
SC.7.N.2.1	Identify an instance from the history of science in which scientific knowledge has changed when new evidence or new interpretations are encountered.	Leveled Reader with Lesson Plan <i>Pioneers of Light and Sound</i> ISBN 9781433300998



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Earth and Space Science		
SC.8.E.5.1	Recognize that there are enormous distances between objects in space and apply our knowledge of light and space travel to understand this distance.	<p>Leveled Readers with Lesson Plans</p> <p><i>The Wonder of Our Solar System</i> ISBN 9781433300806</p> <p><i>From Hubble to Hubble: Astronomers and Outer Space</i> ISBN 9781433300837</p> <p><i>All About Light and Sound</i> ISBN 9781433300981</p> <p><i>Florida's Economy: From the Mouse to the Moon</i> ISBN 9781493835690</p> <p><i>Stars</i> ISBN 9781480747494</p> <p><i>Astronomers Through Time</i> ISBN 9781433300813</p>
SC.8.E.5.10	Assess how technology is essential to science for such purposes as access to outer space and other remote locations, sample collection, measurement, data collection and storage, computation, and communication of information.	
SC.8.E.5.11	Identify and compare characteristics of the electromagnetic spectrum such as wavelength, frequency, use, and hazards and recognize its application to an understanding of planetary images and satellite photographs.	
SC.8.E.5.12	Summarize the effects of space exploration on the economy and culture of Florida.	
SC.8.E.5.2	Recognize that the universe contains many billions of galaxies and that each galaxy contains many billions of stars.	
SC.8.E.5.3	Distinguish the hierarchical relationships between planets and other astronomical bodies relative to solar system, galaxy, and universe, including distance, size, and composition.	
SC.8.E.5.4	Explore the Law of Universal Gravitation by explaining the role that gravity plays in the formation of planets, stars, and solar systems and in determining their motions.	
SC.8.E.5.5	Describe and classify specific physical properties of stars: apparent magnitude (brightness), temperature (color), size, and luminosity (absolute brightness).	
SC.8.E.5.6	Create models of solar properties including: rotation, structure of the Sun, convection, sunspots, solar flares, and prominences.	
SC.8.E.5.7	Compare and contrast the properties of objects in the Solar System including the Sun, planets, and moons to those of Earth, such as gravitational force, distance from the Sun, speed, movement, temperature, and atmospheric conditions.	
SC.8.E.5.8	Compare various historical models of the Solar System, including geocentric and heliocentric.	
SC.8.E.5.9	Explain the impact of objects in space on each other including: <ol style="list-style-type: none"> the Sun on the Earth including seasons and gravitational attraction. the Moon on the Earth, including phases, tides, and eclipses, and the relative position of each body. 	
Life Science		
SC.8.L.18.1	Describe and investigate the process of photosynthesis, such as the roles of light, carbon dioxide, water and chlorophyll production of food release of oxygen.	<p>Leveled Readers with Lesson Plans</p> <p><i>The World of Plants</i> ISBN 9781433301087</p> <p><i>Life and the Flow of Energy</i> ISBN 9781480747364</p> <p><i>Earth's Cycles</i> ISBN 9781480747074</p>
SC.8.L.18.2	Describe and investigate how cellular respiration breaks down food to provide energy and releases carbon dioxide.	
SC.8.L.18.3	Construct a scientific model of the carbon cycle to show how matter and energy are continuously transferred within and between organisms and their physical environment.	
SC.8.L.18.4	Cite evidence that living systems follow the Laws of Conservation of Mass and Energy.	



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Physical Science		
SC.8.P.8.1	Explore the scientific theory of atoms (also known as atomic theory) by using models to explain the motion of particles in solids, liquids, and gases.	Leveled Readers with Lesson Plans <i>Investigating the Chemistry of Atoms</i> ISBN 9781433300882 <i>All About Mechanical Engineering</i> ISBN 9781433300967 <i>Chemical Reactions</i> ISBN 9781480747456 <i>The World of Elements and Their Properties</i> ISBN 9781433301001
SC.8.P.8.2	Differentiate between weight and mass recognizing that weight is the amount of gravitational pull on an object and is distinct from, though proportional to, mass.	
SC.8.P.8.3	Explore and describe the densities of various materials through measurement of their masses and volumes.	
SC.8.P.8.4	Classify and compare substances on the basis of characteristic physical properties that can be demonstrated or measured for example, density, thermal or electrical conductivity, solubility, magnetic properties, melting and boiling points, and know that these properties are independent of the amount of the sample.	
SC.8.P.8.5	Recognize that there are a finite number of elements and that their atoms combine in a multitude of ways to produce compounds that make up all of the living and nonliving things that we encounter.	
SC.8.P.8.6	Recognize that elements are grouped in the periodic table according to similarities of their properties.	
SC.8.P.8.7	Explore the scientific theory of atoms (also known as atomic theory) by recognizing that atoms are the smallest unit of an element and are composed of sub-atomic particles (electrons surrounding a nucleus containing protons and neutrons).	
SC.8.P.8.8	Identify basic examples of and compare and classify the properties of compounds, including acids, bases, and salts.	
SC.8.P.8.9	Distinguish among mixtures (including solutions) and pure substances.	
SC.8.P.9.1	Explore the Law of Conservation of Mass by demonstrating and concluding that mass is conserved when substances undergo physical and chemical changes.	
SC.8.P.9.2	Differentiate between physical changes and chemical changes.	
SC.8.P.9.3	Investigate and describe how temperature influences chemical changes.	
Nature of Science		
SC.8.N.4.2	Explain how political, social, and economic concerns can affect science, and vice versa.	Leveled Reader with Lesson Plan <i>Making It Go: The Life and Work of Robert Fulton</i> ISBN 9781433300974